

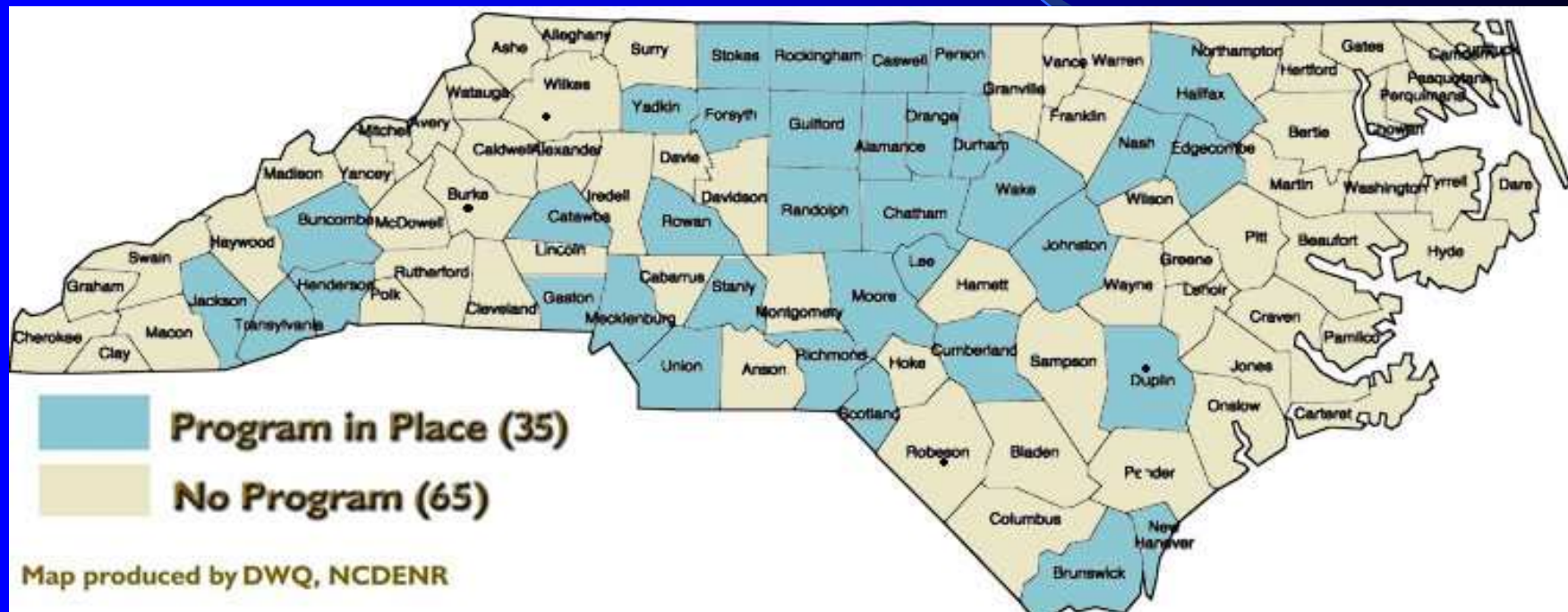
Statewide Well Construction and Water Quality Inspection Program

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On-site Wastewater Section

Division of Environmental Health
Department of Environment and Natural Resources

County Well Regulation Programs in North Carolina



<http://www.ncwelldriller.org/CountyWellRegulationPrograms.htm>

Summary of North Carolina County Well Regulation Programs

- Program Information
 - No. of counties that issue well permits = 33
 - Counties that do casing inspections = 13
 - Counties that do grout inspections = 27
 - Counties that do water sampling = available upon request
- Contact and General Information

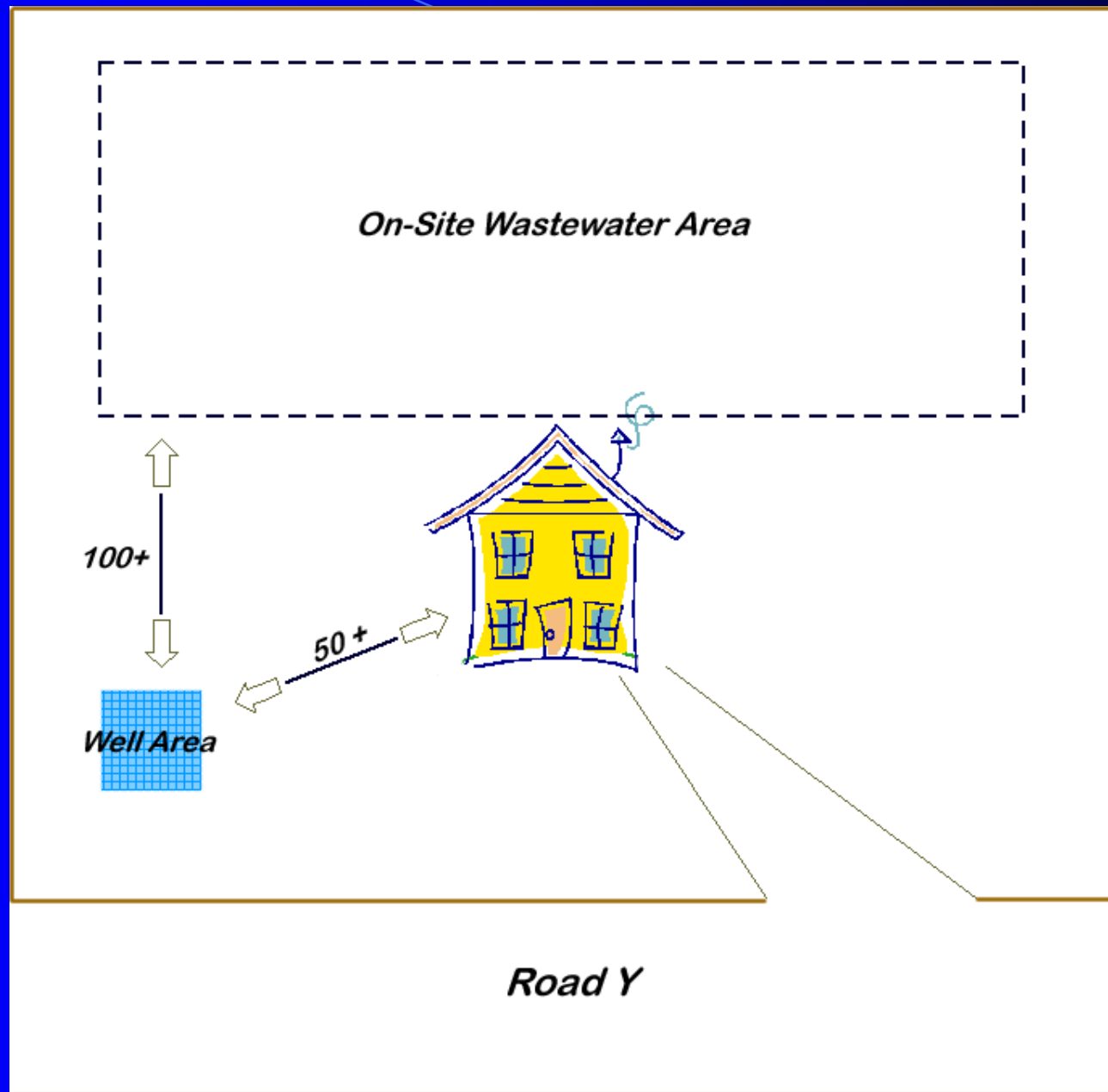
Why Are Well Construction and Water Quality Programs Needed?

- Assure quality is suitable for human consumption
- Statewide consistency of enforcement of construction standards
- Coordination with issuance of on-site wastewater permit

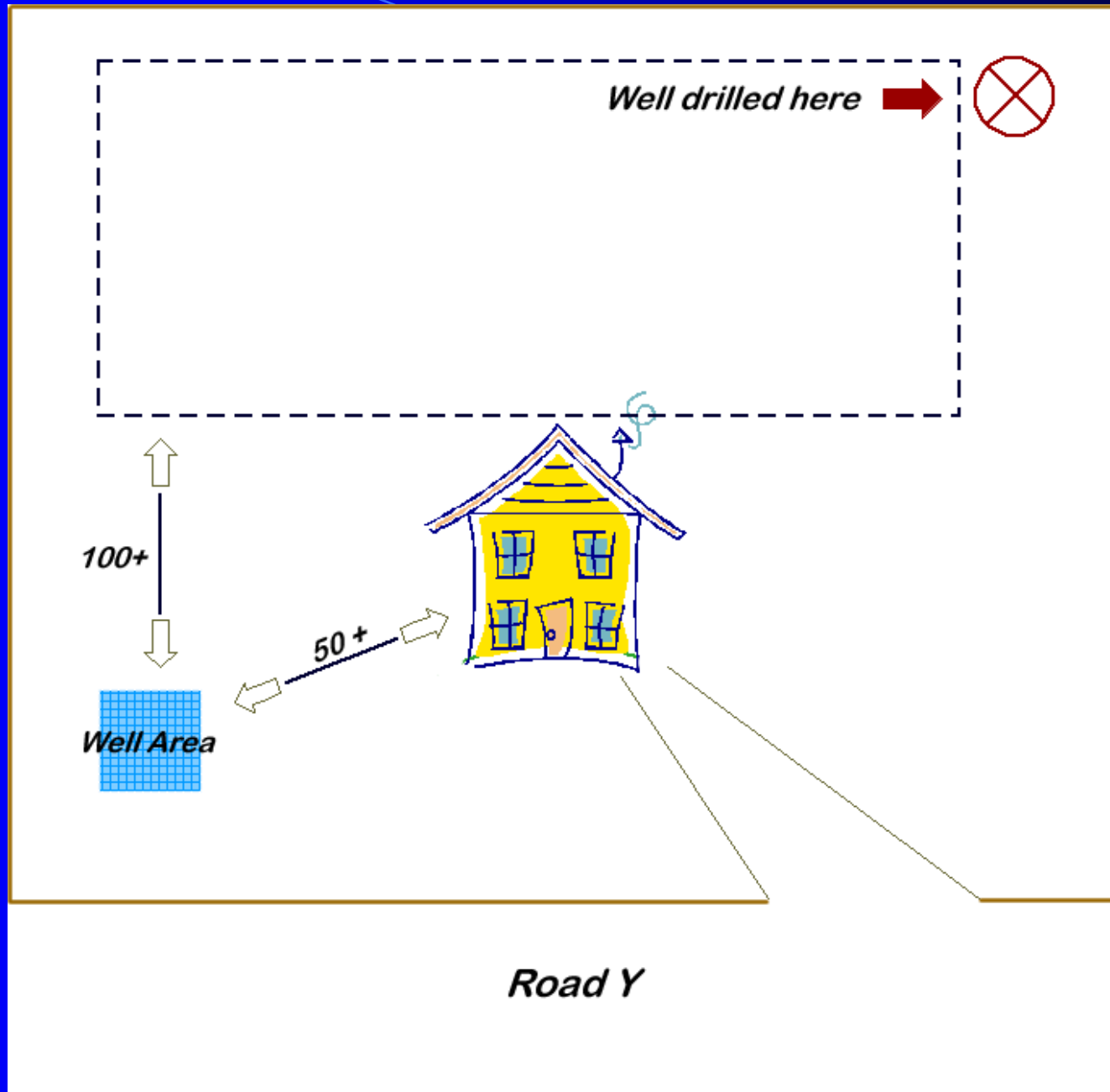
Components of Well Construction and Water Quality Inspection Program

- Issue well permit
- Casing inspection
- Grout inspection
 - Verify location
 - Witness grout
 - Collect well construction information
- Well head inspection
- Water sampling

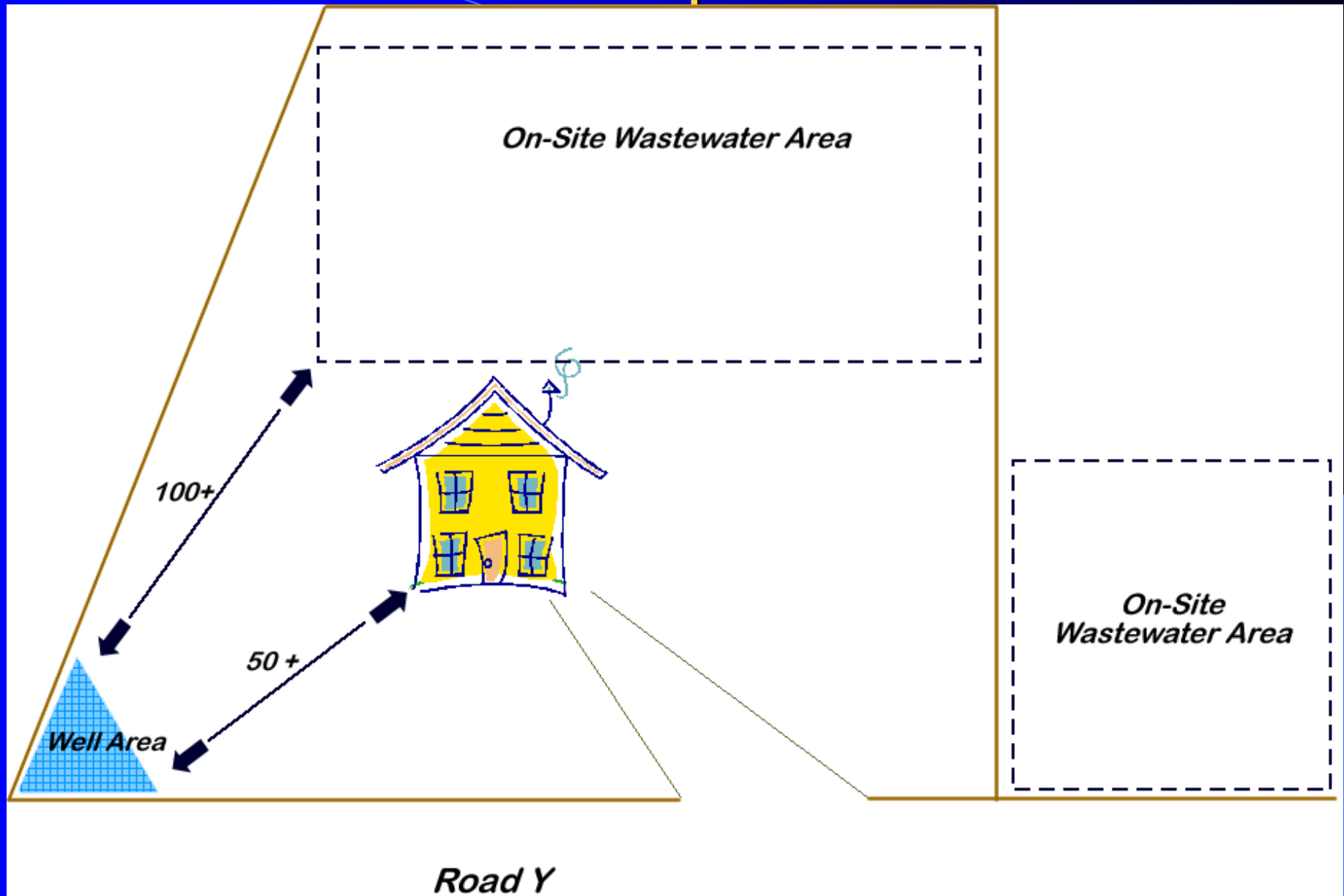
Well Permit



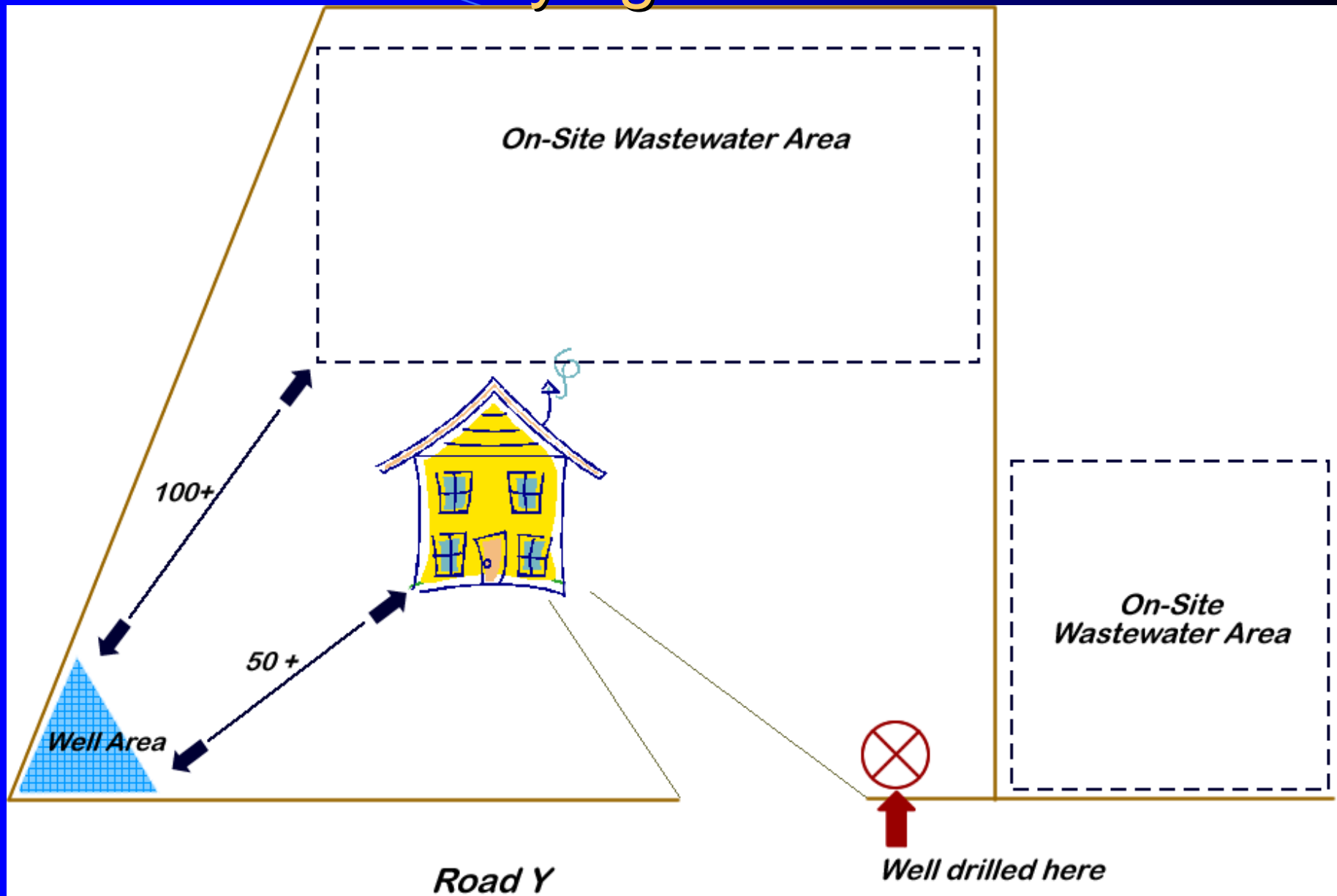
Verifying Location: Mistakes Happen



Permit with Proper Distances



Verifying Location



Grout







Well Construction Information



RESIDENTIAL WELL CONSTRUCTION RECORD

North Carolina Department of Environment and Natural Resources- Division of Water Quality

WELL CONTRACTOR CERTIFICATION # _____

1. WELL CONTRACTOR:

Well Contractor (Individual) Name _____

Well Contractor Company Name _____

STREET ADDRESS _____

City or Town State Zip Code

()- Phone number

2. WELL INFORMATION:

SITE WELL ID #(if applicable) _____

STATE WELL PERMIT #(if applicable) _____

DWQ or OTHER PERMIT #(if applicable) _____

WELL USE (Check Applicable Box): Residential Water Supply ☐

DATE DRILLED _____

TIME COMPLETED _____ AM ☐ PM ☐

3. WELL LOCATION:

CITY: _____ COUNTY: _____

(Street Name, Numbers, Community, Subdivision, Lot No., Parcel, Zip Code)

TOPOGRAPHIC / LAND SETTING:

☐ Slope ☐ Valley ☐ Flat ☐ Ridge ☐ Other _____
(check appropriate box)

LATITUDE 3 _____

May be in degrees,
minutes, seconds or
in a decimal format

LONGITUDE _____

Latitude/longitude source: ☐ GPS ☐ Topographic map

(location of well must be shown on a USGS topo map and
attached to this form if not using GPS)

4. WELL OWNER

OWNER'S NAME _____

STREET ADDRESS _____

City or Town State Zip Code

()- Phone number

5. WELL DETAILS:

a. TOTAL DEPTH: _____

b. DOES WELL REPLACE EXISTING WELL? YES ☐ NO ☐

c. WATER LEVEL Below Top of Casing: _____ FT.
(Use "+" if Above Top of Casing)

d. TOP OF CASING IS _____ FT. Above Land Surface*

*Top of casing terminated at/or below land surface may require
a variance in accordance with 15A NCAC 2C .0118.

e. YIELD (gpm): _____ METHOD OF TEST _____

f. DISINFECTION: Type _____ Amount _____

g. WATER ZONES (depth):

From _____ To _____ From _____ To _____

From _____ To _____ From _____ To _____

From _____ To _____ From _____ To _____

6. CASING:

Depth Diameter Thickness/Weight Material

From _____ To _____ Ft. _____

From _____ To _____ Ft. _____

From _____ To _____ Ft. _____

7. GROUT:

Depth Material Method

From _____ To _____ Ft. _____

From _____ To _____ Ft. _____

From _____ To _____ Ft. _____

8. SCREEN:

Depth Diameter Slot Size Material

From _____ To _____ Ft. _____ in. _____

From _____ To _____ Ft. _____ in. _____

From _____ To _____ Ft. _____ in. _____

9. SAND/GRAVEL PACK:

Depth Size Material

From _____ To _____ Ft. _____

From _____ To _____ Ft. _____

From _____ To _____ Ft. _____

10. DRILLING LOG

From To Formation Description

11. REMARKS:

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH
15A NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS
RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

SIGNATURE OF CERTIFIED WELL CONTRACTOR _____ DATE _____

PRINTED NAME OF PERSON CONSTRUCTING THE WELL _____

Submit the original to the Division of Water Quality within 30 days. Attn: Information Mgt.,
1617 Mail Service Center - Raleigh, NC 27699-1617 Phone No. (919) 733-7015 ext 568.

Form GW-1a
Rev. 7/05





Well Head Inspection



Water Sampling

- Is the water safe to drink?
- Consumer expectations
- What the homeowner believes:
 - “My water is safe to drink”



Why Are Well Construction and Water Quality Programs Needed?

All examples used were discovered and corrected in counties with local well construction programs.

Contact Information

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